# United States Department of Agriculture

## MONTHLY LIST OF PUBLICATIONS

### JUNE 1934

**Any five of the nontechnical publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D.C., as long as the Department's supply lasts. After this supply is exhausted, publications may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D.C., by purchase at the prices stated herein. His office is not a part of the Department of Agriculture.**

**Free distribution of technical material and periodicals is restricted.**

**Except in the case of exchanges, publications are not sent free to residents of foreign countries.**

### FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farms and farm home.

Pumping from wells for irrigation. Paul A. Ewing, Bureau of Agricultural Engineering. 29 p., illus. (F.B. 1404F., rev.) Price, 5¢.

Methods and costs of filling silos in the North Central States. Kenneth H. Myers, Bureau of Agricultural Economics. 22 p., illus. (F.B. 1725F.) Price, 5¢.

Based on data collected in 1928 and 1929 by the Farm Organization and Management, University of Illinois, in cooperation with the Bureau of Agricultural Economics. It is believed the conclusions are approximately applicable to most parts of the country where upright silos are used.

Selecting hens for egg production. J. P. Quinn, Bureau of Animal Industry. 18 p., illus. (F.B. 1727F.) Price, 5¢.

Research has indicated that there is no relationship between egg production and the measurements of the head and body. A hen's ability to lay is determined primarily by her breeding. A few years of intelligent selection will lead to the development of high-laying strains.

Growing barley for malt and feed. H. V. Harlan, Bureau of Plant Industry. 14 p., illus. (F.B. 1732F.) Price, 5¢.

The growing of barley should be continued on a healthy basis free from violent shifts of acreage on account of large premiums or lack of premiums for malting barley. The soundness and permanence of the barley acreage is dependent on the combined judgment of the individual planters.

### TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited as they are intended primarily for scientific workers and subject-matter specialists.

The external anatomy of the red date scale, *Phoenicococcus marlatti* Cockerell, and its allies. F. S. Stickney, Bureau of Entomology. 163 p., illus. (T.B. 404T.) Price, 15¢.

In addition to a detailed study of the external anatomy of *Phoenicococcus marlatti* and its 11 apparent relatives, this bulletin discusses those parts of some other coccids that appear to throw light on their relationships to the Phoenicococcini.

Western duck sickness: A form of botulism. E. R. Kalmbach, Bureau of Biological Survey and Millard F. Gunderson. University of Minnesota. 82 p., illus. (T.B. 411T.) Price, 10¢.

Recent investigations have removed the problem of duck sickness from the field of chemical toxicology to the realm of bacteriology. The disease has been associated definitely with the toxin of a common saprophitic bacterium, Clostridium botulinum, type C, an organism best known in the United States as a frequent cause of limberneck in poultry and forage poisoning in livestock.

Transmission of anaplasmosis by various species of ticks. Charles W. Rees, Bureau of Animal Industry. 18 p., illus. (T.B. 418T.) Price, 5¢.

The purpose of the investigations described in the bulletin was to determine whether other species of ticks prevalent over wide areas of the country might also be vectors of anaplasmosis.

Forage-crop field experiments at West Point, Miss. T. F. Akers and H. L. Westover, Bureau of Plant Industry. 20 p., illus. (T.B. 419T.) Price, 5¢.

These experiments have not been of sufficient duration to give conclusive results, but it is quite evident that the decline in yields and in longevity of stands is associated with the lack of available phosphorus, humus deficiency, and poor cultural practices.

Fluctuations in prices of cotton futures contracts. L. D. Howell, Bureau of Agricultural Economics. 22 p., illus. (T.B. 423H.) Price, 5¢.

This study was made to determine the extent and distribution of actual daily and weekly fluctuations in cotton futures prices. A period of 16 years was taken. The price data presented are confined to those for New York cotton futures contracts.

Marketing cantaloups and other muskmelons. J. W. Park, Bureau of Agricultural Economics. 51 p., illus. (T.B. 425T.) Price, 5¢.

The popularity and commercial importance of various varieties of cantaloups have changed rapidly during recent years. Efforts are now being made to develop varieties and methods of handling which will result in improvement of the quality of melons on the markets.

### CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Some hybrid Martagon lillies. David Griffiths, Bureau of Plant Industry. 15 p., illus. (Cir. 299C.) Price, 20¢.

The lilies described in this circular are first-generation hybrids. The breaking up of characters has been wonderfully diversified, giving a range of variation that would scarcely be expected.

### MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the Department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Descriptions of types of principal American varieties of garden peas. D. N. Shoemaker, Bureau of Plant Industry, and E. J. Delwiche, Wisconsin Agricultural Experiment Station. 39 p., illus. (M.P. 170MP.) Price, 45¢.

The hurricane. I. R. Tannehill, Weather Bureau. 14 p., illus. (M.P. 197MP.) Price, 5¢.

The word "hurricane" is employed in its technical sense to mean a storm of tropical origin with cyclonic wind circulation, and refers more specifically to those which occur in the North Atlantic Ocean, the Gulf of Mexico, and the Caribbean Sea.

### SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

California, Suisun area. (Number 18, series 1930.) 60 p., illus. Price, 40¢.

Maryland, Queen Annes County. (Number 3, series 1931.) 24 p., illus. Price, 30¢.

Nebraska, Dundy County. (Number 1, series 1931.) 44 p., illus. Price, 25¢.

Nebraska, Furnas County. (Number 16, series 1930.) 33 p., illus. Price, 25¢.

New York, Steuben County. (Number 2, series 1931.) 62 p., illus. Price, 25¢.

### PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 18, no. 6, June 1, 1934. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.[1]

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Crops and markets. Vol. 11, no. 5, May 1934. Price, 10¢ a copy; $1 a year, domestic; $1.50 a year, foreign.[1]

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, conditions, and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Shows weather conditions for United States and forecast for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, Upper Michigan, Lower Michi-

[1] Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

gan, Alabama, Mississippi, and the extreme western portion of Florida. Price daily, except Sundays and holidays, 25¢ a month, $3 a year; daily, including Sundays and holidays, 30¢ a month, $3.60 a year. Sunday and holiday maps only, 50¢ a year. Foreign subscriptions, $7.25 a year. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States, 20¢ a month, $2.40 a year.[1]

Experiment station record. Vol. 70, no. 6, June 1934. Price, $1 per volume (2 volumes a year) consisting of 6 monthly numbers and index; $1.50 per volume, foreign. Single number for sale only. Price, 15¢.[1]

A technical view of the world's scientific literature pertaining to agriculture.

Extension service review. Vol. 5, nos. 4 and 5, April and May 1934. Illus. Price, 5¢ a copy; 50¢ a year, domestic; 75¢ a year, foreign.[1]

Issued monthly by the Extension Service, of which it is the official organ, for the distribution of administrative information.

Journal of agricultural research. Price, $2.25 a year domestic; $3.50 a year foreign. Not distributed free to individuals. Each issue, price, 10¢. Reprints, 5¢ each.[1]

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work.

——— Vol. 48, no. 6. Illus. March 15, 1934.

Contents:

Growth and injurious effects of *Cronartium ribicola* cankers on *Pinus monticola* (G–888). H. G. Lachmund.

Run-off and erosion from plots of different lengths (Kans.–74). F. L. Duley and F. G. Ackerman.

The absorption and evaporation of moisture from plant containers (Mass.–39). Linus H. Jones.

The relation between abnormal orientation of the 4-day embryo and position of the chick at hatching (Minn.–83). J. R. Cavers and F. B. Hutt.

Colorado and Virginia strains of codling moth in relation to their ability to enter sprayed and unsprayed apples (Va.–13). Walter S. Hough.

The nutritive value of the proteins of alfalfa hay and clover hay when fed alone and in combination with the proteins of corn (N.Y. (Cornell)–26). Kenneth L. Turk, F. B. Morrison, and L. A. Maynard.

——— Vol. 48, no. 7. Illus. April 1, 1934.

Contents:

Relation of length of day to growth of timothy (G–890). Morgan W. Evans and H. A. Allard.

Distribution of oxygen and carbon dioxide in mushroom compost heaps as affecting microbial thermogenesis, acidity, and moisture therein. (G–892). Edmond B. Lambert and A. C. Davis.

Irregularities in the inheritance of the hairy-neck character transposed from *Secale* to *Triticum* (G–893). J. W. Taylor.

The comparative effectiveness, in the dairy ration, of supplements of phosphorus in the form of orthophosphoric acid, monosodium, disodium, trisodium phosphates, and bone meal (I–16). William A. Turner, Edward B. Meigs, Edward A. Kane, Leo A. Shinn, and Walter S. Hale.

Inheritance of resistance to loose smut in certain wheat crosses (Utah–31). D. C. Tingey and Bion Tolman.

The manganese content of grasses and alfalfa from grazed plots (Idaho–10). Donald W. Bolin.

——— Vol. 48, no. 8. Illus. April 15, 1934.

Contents:

Plant-tissue relations of the sugar-beet curly-top virus (G–891). C. W. Bennett.

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| Farmers' Bulletins | Leaflets | Other publications |
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——— Vol. 48, no. 8. Illus. April 15, 1934 (Continued).

Chemical composition and yield of the Alaska pea as influenced by certain fertilizers and by the stage of development (G–894). Samuel L. Jodidi and Victor R. Boswell.

Abnormalities in the flower and fruit of *Capsicum frutescens* N.Y. (Cornell–27). H. L. Cochran.

Soil treatment in relation to clubroot of cabbage. (Wis.–60). R. H. Larson and J. C. Walker.

Public roads. Vol. 15, no. 3, May 1934. Price, 10¢ a copy; $1 a year, $1.50 a year, foreign.[1]

Weekly weather and crop bulletin. Nos. 22–26, May 29–June 26, 1934. Price, 50¢ a year, domestic; $1 a year, foreign.[1]

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

## AGRICULTURAL ADJUSTMENT ADMINISTRATION

Crop insurance features of agricultural adjustment programs. 5 p. (G–12.)[2]

The weather, the farmers, and the nations food. Chester C. Davis, Administrator Agricultural Adjustment Act. 2 p. (G–13.)[2]

One year of the A.A.A.; the record reviewed. Chester C. Davis, Administrator Agricultural Adjustment Act. 8 p. (G–14.)[2]

Research and adjustment march together. Henry A. Wallace, Secretary of Agriculture. 2 p. (G–15.)[2]

Agriculture and foreign trade. Chester C. Davis, Administrator Agricultural Adjustment Act. 2 p. (G–16.)[2]

Agriculture and the consumer. Rexford G. Tugwell, Assistant Secretary of Agriculture. 2 p. (G–17.)[2]

Code of fair competition for the feed manufacturing industry. Approved by the President of the United States. Code of Fair Competition Series—Code no. 15. 16 p. (M–63.) Price, 5¢.[1]

Marketing agreement and license for packers of California raisins. Marketing agreement series—Agreement no. 44. License Series—License no. 59. 45 p., (M–64.) Price, 5¢.[1]

Marketing agreement and license for California date shippers. Marketing Agreement Series Agreement no. 45. License Series—License no. 61. 24 p. (M–65.) Price 5¢.

Marketing agreement for buyers of stemming grades of cigar-leaf tobacco: Types 41, 42, 43, 44, 51, 52, 53, 54, and 55. Marketing Agreement Series—Agreement no. 46. 6 p. (M–66.) Price, 5¢.

[1] Payable to the Superintendent of Documents, Government Printing Office, Washington, D.C.

[2] These may be obtained free upon application to the Agricultural Adjustment Administration.

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